	For use	e of t	his	HI form,	G , s	ee FN	1 6- <sub>4</sub>	40; t	he pr	oponen	t aç	OF IMPA gency is U HB (MPI)	S Army	Γrain	ing an	TIC id I	ON Doct	rine	Com	mar	nd.	
COMPUTATION Of Message to Observers											Dis 01→02			Az 01 → 02					3200			
														Az 02	2 →	01						
Data Fired Chg									Df				FS									
Observer Readings  Rd 01 02												Interior Angles										
No Az VA					Az			01				Left		01 on				on F	Right			
1									01 → HB (MPI)					Az 02→ HB (MPI)								
2								+6400 if necessary					+6400 if necessary									
3	:					Tota			otal				Total									
4							-Az 02→ HB (MPI)						-Az (	-Az 01 → HB (MPI)								
5							APEX 🔏						APE	APEX 🔏								
6	;						Az 0	2 <b>→</b> HE	3 (MPI)			A z 02→ 01										
7							+640 nece	00 if essary					+6400 if necessary									
8						Total					Tota	Total										
9								-Az 02→ 01							-Az 02→ HB (MPI)							
10							∠ at 02					4	∠ at 02									
				Total						Bearing = 6400 - Az		1	Bearing = Az			· ·	Az 01 → HB (MPI) + Bearing			PI) →		
							A ve	rage			dE - dN +		dE dN									
Distance 01 HB (MPI)										I												
Log base 01 →02													IX	,								
+ log sin 🔏 at 02													III	$\overline{}$	II							
Sum											4								Bearing			
- Log sin Apex Angle											_											
diff = Log dist 01 hb (MPI)											4	dE - dN - Bearing =	_		$\frac{dE - dN}{Bearing} =$							
Dist	: 01→ HB (MPI)											Az - 3200			3200 -							
Log dist							Т		Log of dE,			N, and dH			Log dist							
01→HB (MPI) Log sin					01→ HB (MPI) Log cos						-	→HB (M Tan	<u> </u>		Γ							
Bearing Sum =			+				earing um =					Veri		<u> </u>								
Log dE							og dN					Log										
Coordinates of 01					+ +							N +					H +					
					- dE							- dN					- dH					
Location of HB (MPI)								0015::=			N					Н						
	UD (147)			П	<u></u>	⊏ fire -			COMP	UTATION		art data to H		ition						Df c	orr	
Alt HB (MPI)				OE fired						De	eflection	m	ngeN									
- Alt Btry					VI/HB (MPI) Rg							FT " ange	Lot Time									
VI +					Adj Elev									_								

	H	IIG	H E	3UI	R	ST	(M	EΑ	N	POIN (FI	T (	OF IMF	PAC	T)	REG	IST	ΓRA	٩T	ION				
												HB (MPI											
Mes	ssage to Observ	ers																					
													01	Az	01 →	02							
																+				3200			
																	-				00		
															Az	02→	. 01						
Data Fired Chg										)f			FS	1	<u></u>	OE							
	Obs	ings									Int	erior .	Angles										
Rd 01					_	02 Az				0	1 on	Left			on R	Right							
1									)1 <b>→</b> 1	HB (MPI)					Az 02→ I								
2								+6400 if necessary							+6400 if								
3							Tota								Total								
4								-Az	02→	HB (MPI)			-Az 01 →	HB (N	ΛΡΙ)	T							
5								APE	EX _	<u> </u>					APEX 🔏								
6								Az 02→ HB (MPI)					A z 02→										
7									00 if	v					+6400 if								
8						Total						Total					$\top$						
9							-Az 02→ 01					-Az 02→ HB (MPI)											
10							∠ <b>j</b> at 02						∠ <b>)</b> at 02										
								Total			Bearing = 6400 - Az			Bea		A= 01	UI	) /N/IE	21\				
								verage			dE - dN +				# 3b + Nb				1) -				
		01	1 HB (MPI)																				
Log base 01 →02																							
+ log sin 🗘 at 02														IV III		_							
Sum														111	11								
- Lo	g sin Apex Angl	e																	Bear	ng			
diff = Log dist 01 hb (MPI)												dE - dN -			dE dN				+				
Dist 01→ HB (MPI)												Bearing = Az - 3200			Bearing = 3200 - Az								
										Log of di	Ξ, dN	N, and dH											
Log dist 01→ HB (MPI)							Log dist 01→ HB (MPI)							Log dist 01 →HB (MPI)									
Log sin Bearing							Log cos Bearing							Log Tan Vert	4								
Sum = Log dE							Sum = Log dN							Sum = Log dH									
Coordinates of 01					E							N					н						
					+ - dE							+ - dN					+ - d⊦	1					
Location of HB (MPI)					Е							N			Н								
									COM	1PUTATIO	Т	GFT SETTI								Int -	orr		
Alt HB (MPI)					OE fired							nart data to Heffection	locat _m	tion Rang		_м		Df corr					
- Alt Btry				- Site VI/HB (MPI) R			g			GI	FT"	" (											
VI + -					Adj Elev						na L	Range Elevation Time											